#2980

Attorney Docket No.: 6004.200-US

PATENT

Issue Batch Number: 054

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Belghuith et al.

Confirmation No: Belghuith et al.

Serial No.: 09/383,318

Group Art Unit: 1652

Filed: August 26, 1999

Examiner: Slobodyansky

Confirmation No: 6411

For: Polypeptides Having Glucose Isomerase Activity And Nucleic Acids Encoding Same

SUBMISSION OF FORMAL DRAWINGS

Commissioner for Patents Washington, DC 20231

Sir:

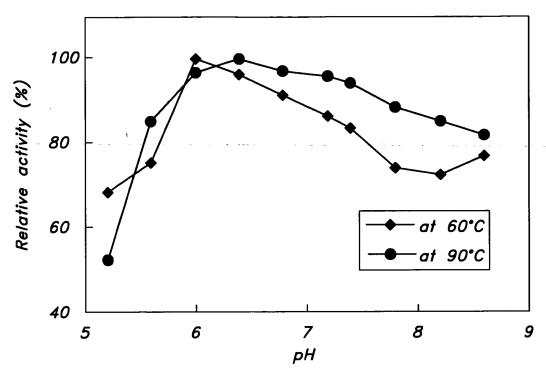
Applicants submit herewith 5 sheets of formal drawings, containing Figures 1, 2, 3, 4A, 4B, 5 for the above-captioned application. The formal drawings are being filed in response to the request contained in the Attachment to the Notice of Allowance and Issue Fee Due, mailed November 6, 2001, and should be substituted for the corresponding sheets of informal drawings of the originally filed application.

Respectfully submitted,

Date: February 1, 2002

Jason I. Garbell, Reg. No. 44,116 Novozymes North America, Inc. 405 Lexington Avenue, Suite 6400 New York, NY 10174-6401

(212) 867-0123



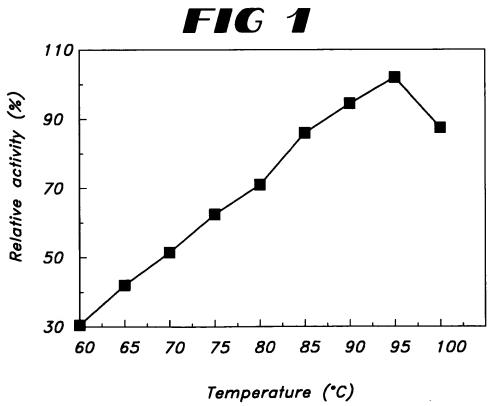
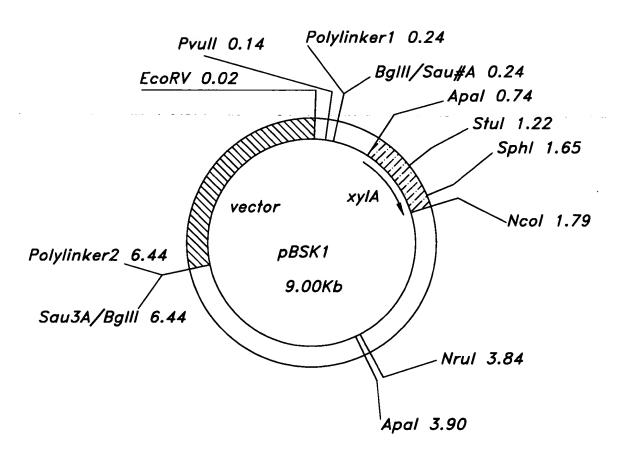


FIG 2



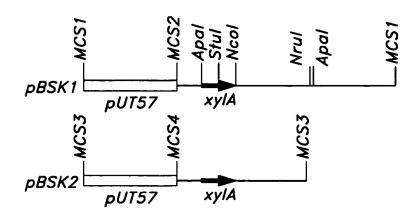


FIG 3

| | 800 179 | GCCAAGGACGTGCGTGCGGCCTTGGAGGAGGCCTTCGACCTGCTCGGCGAGTACGTCACCTCGCAGGGCTACGACATCCGGTTCGCCATCG |
|---|------------|--|
| | 146 | ALRKTIRNIDLAVELGAKVYVAWGGREGAESGA |
| | 700 | CGCCCTGCGCAAGACCATCCGGAACATCTCGCGGTCGAGCTGGGCGCCAAGGTCTACGTCGCCTGGGGCGGCCGCGGGCGCGGGGGCGGGGGTCCGGTGCC |
| | 600 | CGACCGGCATGACCGTTCCGATGGCCACCACCACCTTTCACCCGTCTTCAAGGCAGGC |
| , | 79 | A Y G V T F H D D D L I P F G A S D T E R E A H V K R F R Q A L D |
| | 200 | GCCTACGGAGTGACCTTCCACGACGACGTGCCTTCGGGGGGGG |
| | 46 | G L W T V G W Q G R D P F G D A T R P A L D P V D V Q R L A E L G |
| | 400 | 、 |
| | 13 | ICCCCUTATION TO THE TOTAL CONTROLL CONT |
| | 300 | CTCTGACCTGCGGCTTCACGCTATGCCGGGCCTGTGGGCCCCGGGGTGCGGACCCGGCCCGGCCCGTTTCTGCTTCCGCGTTCCCTTCCCAGGGACGGGG TCCCCATACTAATTGTAAATTGTCCCTCTCAACAAAAAACCAACC |
| | 100 | CACGAGCGCCTTGGTGGACTGGGTGGACGAGTCCACACGACGACGAGGCGGACCCTCGGCTGCTGACATCGGCTCTCCCTCTTTTTCCCGGCTCAGGGG |

FIG 41

| 900 | 1000 | 1100 | 1200 313 | 1300 346 | 1400 379 | 1500 386 |
|--|--|---|--|--|---|-------------------|
| AGCCCAAGCCGAACGAGCGGCGACATCCTGCTGCCCACCATCGGCCTCGCCTTCATCGAGCGCCTGGAGCGCCCCGAGCTGTCCGGTGT E P K P N E P R G D I L L P T I G H A L A F I E R L E R P E L Y G V | CAACCCCGAGGTGGGCCAGAGCTGGCCGGCCTGCACGCCATCGCGCAGGCTCTGTGGGCGAAGCTCTTCCACATCGACCTCAAC N P E V G H E Q M A G L N F P H G I A Q A L W A G K L F H I D L N | GCCAGTCCGCCATCAAGTACGACCAGGACCTGCGCGCCGCCCCCCTTCTGGCTGG | AGGGTCCGCGCCACTTCGACTTCAAGCCCCCCGCGGACCATCGACGCCGTGTGGGCCCTCCGCGCCGGGTGCATGCGCAACTACCTGATCCTGAA 3 G P R M F D F K P P R T E D I D G V W A S A A G C M R N Y L I L K | SGAGCGCCCCCCCTCCGTGCCGACCCGGAGGTCCAGGCGCCCTGCGTGCCCGGCTCGACCTCGCCGAGCCCCACGGGCCGACGCCTG E R A A A F R A D P E V Q E A L R A A R L D Q L A E P T A A D G L | AGGCCCTGCTGGCCGACCGCGTACGAGGACTTCGACGTGGACGCGCGCG | I L L G A R G *** |

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GGCCCCATCGTGCTGCTCTCCCGGGGCGCGTGTGGGGGCGTGTGC

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FIG 5